

**CONFIDENTIAL**  
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**Five-Year Network Improvement Plan and Progress Report**  
**For Bixby Telephone Company**

In its *USF/ICC Transformation Order* and subsequent Orders, the Federal Communications Commission (“FCC” or “Commission”) required Eligible Telecommunications Carriers (“ETCs”) to submit a five-year build-out plan in a manner consistent with Section 54.202(a)(1)(ii) of the Commission’s Rules by July 1, 2014 and to submit annual progress reports thereafter.<sup>1</sup> In its *March 5, 2013 Order*, the FCC specified that for rate-of-return carriers, the five-year plans “should describe the carrier’s network improvement plan, which should provide greater visibility into current plans to extend broadband service to unserved locations in rate-of-return service territories.”<sup>2</sup> (“Bixby Telephone Company” or the “Company”) is a rate-of-return carrier ETC and hereby submits its five-year network improvement plan as well as a progress report covering any progress made during the first half of 2016 on the initial five-year network improvement plan submitted in 2016 as well as any updates to the plan made since its initial submission.

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<sup>1</sup> See *Connect America Fund; A National Broadband Plan for Our Future; Establishing Just and Reasonable Rates for Local Exchange Carriers; High-Cost Universal Service Support; Developing a Unified Intercarrier Compensation Regime; Federal-State Joint Board on Universal Service; Lifeline and Link-Up; Universal Service Reform—Mobility Fund*; WC Docket Nos. 10-90, 07-135, 05-337, 03-109, CC Docket Nos. 01-92, 96-45, GN Docket No. 09-51, WT Docket No. 10-208, Report and Order and Further Notice of Proposed Rulemaking, FCC 11-61 (rel. Nov. 18, 2011) (*USF/ICC Transformation Order*) at Para. 587; *pets. for review denied, Direct Comm. Cedar Valley, et al v. FCC 11-161*, No. 11-9900 [www.ca10.uscourts.gov/opinions/11/11-9900.pdf](http://www.ca10.uscourts.gov/opinions/11/11-9900.pdf) (10th Cir. filed May 23, 2014); see also *Connect America Fund et al.*, WC Docket 10-90 *et al.*, Order, DA 12-147 (rel. Feb. 12, 2012) at Para. 5 (amending Section 54.313(a)(1) to clarify this requirement); *Connect America Fund et al.*, WC Docket 10-90 *et al.*, Third Order on Reconsideration, FCC 12-52 (rel. May 14, 2012) at Para. 10 (changing the filing deadline for the annual reports from April 1 to July 1); *Connect America Fund et al.*, WC Docket 10-90 *et al.*, Order, DA 13-332 (rel. Mar. 5, 2013) (“*March 5, 2013 Order*”) at Para’s. 4, 6-9. Delaying Five-year Plan until July 1, 2014 see WC Docket No. 10-90, Order, DA 13-1115, Para. 8 (released May 16, 2013).

<sup>2</sup> *March 5, 2013 Order* at Para. 9 citing Section 54.202(a)(1)(ii).

## **I. Description of the Company**

Bixby Telephone Company was established in 1914. The company deploys both fiber optic and copper network facilities via aerial and underground facilities. As the demand for greater bandwidth has occurred and is occurring, these facilities must be upgraded to meet or exceed current and future customer demand. Aging facilities must also either be maintained or replaced periodically that put demand on resources of the company. The service territory for Bixby Telephone Company is approximately 124 square miles with an overall service territory density of approximately 32 customers per square mile. Bixby Telephone Company serves southern Tulsa County, northern Okmulgee County and western Wagoner County and includes the communities of Bixby, Tulsa, Mounds, Jenks, Broken Arrow, Okmulgee and Leonard in Oklahoma.

## **II. The Company's Five-Year Network Improvement Plan**

When the Commission adopted its five-year plan requirements for FCC-designated ETCs in its *2005 ETC Order*, it set forth the following criteria as to how the ETC is to describe with "specificity" the proposed improvements or upgrades to the ETC's network throughout its service area:

(1) how signal quality, coverage, or capacity will improve due to the receipt of high-cost support throughout the area for which the ETC seeks designation; (2) the projected start date and completion date for each improvement and the estimated amount of investment for each project that is funded by high-cost support; (3) the specific geographic areas where the improvements will be made; and (4) the estimated population that will be served as a result of the improvements.<sup>3</sup>

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<sup>3</sup> *Federal-State Joint Board on Universal Service*, CC Docket No. 96-45, Report and Order, FCC 05-46 (rel. Mar. 17, 2005) ("2005 ETC Order").

In that order, the FCC clarified that service quality improvements in the five-year plan “do not necessarily require additional construction of network facilities.”<sup>4</sup> Accordingly, the improvements listed in the plan may be projects related to the expansion of the network (one or multiple services), projects related to updating technology to accommodate new services or higher bandwidth or maintenance projects, such as to reduce trouble reports or replace outdated equipment. Additionally, in some cases, the projects may be ones that improve or upgrade the entire network rather than discrete areas within a study area or they may be ones that are ongoing projects that have no specific start and completion dates.

The instructions to the Form 481 state “[r]ecipients may describe where improvements are expected to occur by wire center or census block, as appropriate. To the extent no improvements are planned in specific areas, the five-year plan should so indicate.”<sup>5</sup> The instructions also require that in subsequent annual progress reports, which must include the total amount of universal support received, this information must be provided “broken out separately by the amount spent on capital expenses and the amount spent on operating expenses.”<sup>6</sup> Accordingly, the Company’s five-year plan separately provides both capital expenditures and operating expenses.

**A. The Company’s Major Network Improvement Projects**

Based upon this framework, Appendix A updates the Company’s five-year plan submitted in 2016 and reflects Bixby Telephone Company’s major network improvement

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<sup>4</sup> *Id.*

<sup>5</sup> Instructions for Completing FCC Form 481, OMB Control No. 3060-0986 (High-Cost), OMB Control No. 3060-0819 (Low-Income), July 2013, Line 112.

<sup>6</sup> Instructions for Completing FCC Form 481, OMB Control No. 3060-0986 (High-Cost), OMB Control No. 3060-0819 (Low-Income), July 2013, Line 112.

projects for the five calendar years 2016 through 2021<sup>7</sup> along with the start and completion dates, capital costs, areas and population associated with those projects.

**B. How These Projects Will Improve the Network**

Bixby Telephone Company's projected projects will address several issues with the Company's network. Bixby continues to be a growing community and as such is going to put a greater requirement on Bixby's network causing a need to deploy new facilities while at the same time upgrading existing facilities and increase the capacity to service some of the new neighborhoods/subdivisions and businesses. Additionally, the Company currently has taken great strides to take out of service above-ground aerial cable within its network that is susceptible to weather related damage as well as that of animals as well as the potential for vandals. There is also existing facilities that must be taken out of service to accommodate newer more technologically feasible facilities that can handle the increased strain on the network and still deliver the services customers are demanding.

**C. Estimated Capital Expenditures and Operating Expenses**

The first table in Appendix B included herein specifies the capital expenditures (projects) in Appendix A, by Part 32 account, along with the respective year in which the expenditures are expected to occur. In the second table of Appendix B, the projected operating expenses are provided, including depreciation expense for both embedded plant investment and for capital expenditures, which begins when the capital expenditures are projected to be placed into service.

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<sup>7</sup> Based upon informal discussions with the FCC, the initial five-year network improvement plan covered calendar years 2016 through 2021.

### **III. The Company's Progress Report on its Five-Year Network Improvement Plan**

Because the calendar year 2017 is still under way, Bixby Telephone Company has no progress to report on the network improvement projects planned for 2016. Bixby Telephone Company is only able to report progress made prior to or over the first several months of 2016. Comprehensive progress made on network improvements in 2016 will be reported by Bixby Telephone Company in its 2017 ETC Annual Report. Bixby Telephone Company hereby provides the following required elements of its progress report to satisfy Form 481 reporting obligations.

#### **A. The Amount of Universal Service Support Received by the Company**

For the 2016 calendar year, which was outside of the scope of the Company's initial five-year network improvement plan, Bixby Telephone Company received a total of \$2,195,952.00 in high cost universal service fund ("USF") support through the following mechanisms:

- \$0 for Interstate Common Line Support ("ICLS");
- \$2,008,458 for High Cost Loop Support ("HCLS");
- \$187,494 for ICC CAF Support;
- \$0 for Safety Net Additive ("SNA") (if applicable).

#### **B. How Bixby Telephone Company Has Used USF Support to Improve Service Quality, Coverage, and Capacity**

Section 254(e) of the Communications Act of 1934, as amended requires ETCs to use Universal Service support ("USF") "only for the provision, maintenance, and upgrading of facilities and services for which the support is intended."<sup>8</sup> Pursuant to Section 54.314 of the FCC's rules, in order for state-designated ETCs to receive USF support for the coming year,

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<sup>8</sup> 47 U.S.C. § 254(e).

states must annually file certifications by October 1 stating that all federal high-cost support provided to such carriers within the state “was used in the preceding calendar year and will be used in the coming calendar year only for the provision, maintenance, and upgrading of facilities and services for which the support is intended.”<sup>9</sup> ETCs not designated by a state must file similar certifications with the FCC.<sup>10</sup>

In its *USF/ICC Transformation Order*, the FCC clarified that prior to making the Section 254(e) certifications, states should conduct a “rigorous examination of the factual information” contained in the annual Section 54.313 reports, of which the five-year network improvement plan and annual progress reports are a part, in determining whether they can certify that carriers’ support has been used and will be used only for the purpose for which the support was intended.<sup>11</sup> The FCC said that it would also use the reports to verify certifications filed by ETCs that are not state-designated.<sup>12</sup> In this context, the Commission stated, “[i]n light of the public interest obligations we adopt in this Order, a key component of this [Section 254(e)] certification will now be that support is being used to maintain and extend modern networks capable of providing voice and broadband service.”<sup>13</sup>

Essentially, under the existing rules and processes, the federal USF support received by the Company and other incumbent rural telephone companies are, in fact, an integral part of the recovery of expenditures of rural incumbent local exchange carriers incurred in the

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<sup>9</sup> 47 C.F.R. § 54.314(a).

<sup>10</sup> 47 C.F.R. § 54.314(b).

<sup>11</sup> See *USF/ICC Transformation Order* at Para. 612.

<sup>12</sup> *Id.*

<sup>13</sup> *Id.* (emphasis supplied).

provision, maintenance and upgrading of their provision of facilities and services for which USF support is intended. Bixby Telephone Company depends upon its receipt and utilization of federal universal service support to provide rural telephone customers with affordable and quality voice and broadband services.

Accordingly, given the critical role the network improvement plan as updated herein and the progress reports will have in the annual Section 254(e) certification process, Bixby Telephone Company's plan and progress reports demonstrate how the Company has used and will use USF support not only for improvements and upgrades, but also for the provision and maintenance of the facilities and services to which the support was intended. The Company hereby certifies that during 2016 it used USF support solely for which the support was intended.

**C. Map Depicting the Company's Network Progress**

Attached to this Five-Year Network Improvement Plan as Appendix C is Bixby Telephone Company's map depicting the extent of the Company's network within its service area.

**D. Network Target Results**

Year 2016 was the first year of the Company's network improvement plan submitted as part of the FCC Form 481. The Company is reporting results of the 2016 plan with the current reporting year and will report subsequent results on a year by year basis in upcoming reporting years.

# APPENDIX A

Study Area Code  
 Study Area Name  
 Company Contact Name  
 Contact Telephone Number  
 Contact Email Address

431989  
 Blake Thompson Company  
 Frank Robinson  
 413-565-8070 x219  
 fthobson@blc.net

## PART A - PROJECT LIST FOR 2016-2021

Project	Start Date	Completion	Year	Status	Areas	Estimated Population	Total Dollars	Part 32 Account	Category	Voice, Broadband, Both
Construction Vehicle Replacement	19-Jul-16	19-Jul-16	2016	Completed	Exchange Wide	18,000	\$5,600	2112	Vehicles	Both
Construction Vehicle Replacement	11-Aug-16	11-Aug-16	2016	Completed	Exchange Wide	18,000	\$8,365	2112	Vehicles	Both
Construction Vehicle Replacement	27-Dec-16	27-Dec-16	2016	Completed	Exchange Wide	18,000	\$7,527	2112	Vehicles	Both
Construction Vehicle Replacement	23-Mar-16	23-Mar-16	2016	Completed	Exchange Wide	18,000	\$90,056	2112	Vehicles	Both
Construction Vehicle Replacement	7-Jan-16	7-Jan-16	2016	Completed	Exchange Wide	18,000	\$4,821	2112	Vehicles	Both
MIG WELDER 2016	31-Mar-16	31-Mar-16	2016	Completed	Exchange Wide	18,000	\$705	2116	General Support	Both
PENITE MICH TRAILER 07/19/2016	18-Jul-16	18-Jul-16	2016	Completed	Exchange Wide	18,000	\$871	2116	General Support	Both
BOAT CARS TROLLING MOTOR	31-Aug-16	31-Aug-16	2016	Completed	Exchange Wide	18,000	\$1,005	2116	General Support	Both
BUFFER TUBE TOOL KIT	5-Dec-16	5-Dec-16	2016	Completed	Exchange Wide	18,000	\$1,050	2116	General Support	Both
BUMPER PULL TRAILER 07/19/2016	19-Jul-16	19-Jul-16	2016	Completed	Exchange Wide	18,000	\$1,307	2116	General Support	Both
ADVANCE HAND-HELD OIL PROBE W/ TONE	31-Jul-16	31-Jul-16	2016	Completed	Exchange Wide	18,000	\$1,761	2116	General Support	Both
DRILL DRIVE BELT FEED W/ TRIPD	25-Jan-16	25-Jan-16	2016	Completed	Exchange Wide	18,000	\$1,810	2116	General Support	Both
Black Gooseport Trailer 07/19/2016	19-Jul-16	19-Jul-16	2016	Completed	Exchange Wide	18,000	\$1,961	2116	General Support	Both
IDENTIFIER FIBER KIT FI-100	14-Sep-16	14-Sep-16	2016	Completed	Exchange Wide	18,000	\$2,168	2116	General Support	Both
DM RX UTILITY/LABD BASIC UNIT	31-Jul-16	31-Jul-16	2016	Completed	Exchange Wide	18,000	\$4,422	2116	General Support	Both
GENERATOR W/ LITES 07/19/2016	17-Aug-16	17-Aug-16	2016	Completed	Exchange Wide	18,000	\$4,779	2116	General Support	Both
RADIUS ROCK HEAD	30-Nov-16	30-Nov-16	2016	Completed	Exchange Wide	18,000	\$5,018	2116	General Support	Both
TESTER GROUND ROD CALIBRATED	14-Sep-16	14-Sep-16	2016	Completed	Exchange Wide	18,000	\$5,246	2116	General Support	Both
JET AC COOLER AND ACCESSORIES	31-Jul-16	31-Jul-16	2016	Completed	Exchange Wide	18,000	\$5,448	2116	General Support	Both
OPTICAL TIME DOMAIN REFLECTOMETER	14-Sep-16	14-Sep-16	2016	Completed	Exchange Wide	18,000	\$5,848	2116	General Support	Both
QUANTUM FUSION SPULSER KIT	23-Sep-16	23-Sep-16	2016	Completed	Exchange Wide	18,000	\$7,206	2116	General Support	Both
CASE MAXI CABLE PLOW	28-Oct-16	28-Oct-16	2016	Completed	Exchange Wide	18,000	\$7,416	2116	General Support	Both
FURUKAWA HAND HELED FUSION SPL	22-Sep-16	22-Sep-16	2016	Completed	Exchange Wide	18,000	\$7,677	2116	General Support	Both
MINI FIBER TOOL KIT	14-Sep-16	14-Sep-16	2016	Completed	Exchange Wide	18,000	\$10,203	2116	General Support	Both
QUANTUM FUSION SPULSES	23-Sep-16	23-Sep-16	2016	Completed	Exchange Wide	18,000	\$22,525	2116	General Support	Both
2016 FIBER SPLICING TRAILER	30-Jun-16	30-Jun-16	2016	Completed	Exchange Wide	18,000	\$51,194	2116	General Support	Both
SIDEBACK XOSI W PAIR HOLDING	4-Oct-16	4-Oct-16	2016	Completed	Exchange Wide	18,000	\$3,465	2123	General Support	Both
5" CLAMP ASSEMBLY	31-May-16	31-May-16	2016	Completed	Exchange Wide	18,000	\$5,774	2124	General Support	Both
MTRTEL PHONE SYSTEM	1-Apr-16	1-Apr-16	2016	Completed	Exchange Wide	18,000	\$9,11	2124	General Support	Both
LATITUDE ETASO FOR TA	14-Jan-16	14-Jan-16	2016	Completed	Exchange Wide	18,000	\$805	2124	General Support	Both
DELL LATITUDE E7450 FOR JAVONNA	31-Aug-16	31-Aug-16	2016	Completed	Exchange Wide	18,000	\$9,11	2124	General Support	Both
RAUTIER DEL OPILEX	31-Jul-16	31-Jul-16	2016	Completed	Exchange Wide	18,000	\$9,69	2124	General Support	Both
LATITUDE ETASO FOR BRADY	5-Jan-16	5-Jan-16	2016	Completed	Exchange Wide	18,000	\$1,001	2124	General Support	Both
APPLE MAC MINI 2.6GHZ	30-Nov-16	30-Nov-16	2016	Completed	Exchange Wide	18,000	\$1,197	2124	General Support	Both
Memorial Recycle Printer	16-Mar-16	16-Mar-16	2016	Completed	Exchange Wide	18,000	\$1,210	2124	General Support	Both
DELL S404 LAPTOP 2016	30-Jun-16	30-Jun-16	2016	Completed	Exchange Wide	18,000	\$1,270	2124	General Support	Both
DELL OPTIPLEX 9030 ALL IN ONE	29-Feb-16	29-Feb-16	2016	Completed	Exchange Wide	18,000	\$1,386	2124	General Support	Both
13.3 MACBOOK PRO	30-Oct-16	30-Oct-16	2016	Completed	Exchange Wide	18,000	\$1,389	2124	General Support	Both
DELL LAPTOP LATITUDE E7450	31-Jul-16	31-Jul-16	2016	Completed	Exchange Wide	18,000	\$1,476	2124	General Support	Both
APPLE 13" MACBOOK PRO TYLER WINN	30-Nov-16	30-Nov-16	2016	Completed	Exchange Wide	18,000	\$1,851	2124	General Support	Both
RUGGEDIZED LIGHT SOURCE	31-Jul-16	31-Jul-16	2016	Completed	Exchange Wide	18,000	\$1,911	2124	General Support	Both
LATITUDE COMP FOR MIDAVIS, KIMH, KIMR	18-Jan-16	18-Jan-16	2016	Completed	Exchange Wide	18,000	\$2,297	2124	General Support	Both
DELL LATITUDE S414 RUGGED NOTEBOOK	30-Nov-16	30-Nov-16	2016	Completed	Exchange Wide	18,000	\$2,343	2124	General Support	Both
DELL LATITUDE S404 - DEC2014	7-Mar-16	7-Mar-16	2016	Completed	Exchange Wide	18,000	\$2,592	2124	General Support	Both
NETWORK STORAGE 2015	1-Jan-16	1-Jan-16	2016	Completed	Exchange Wide	18,000	\$3,514	2124	General Support	Both
DELL LATITUDE E7450 ULTRABOOK	30-Apr-16	30-Apr-16	2016	Completed	Exchange Wide	18,000	\$4,065	2124	General Support	Both
DELL LATITUDE S404V16 - RUGGED	29-Feb-16	29-Feb-16	2016	Completed	Exchange Wide	18,000	\$4,440	2124	General Support	Both
DELL LATITUDE E7470	30-Nov-16	30-Nov-16	2016	Completed	Exchange Wide	18,000	\$5,725	2124	General Support	Both
MX3820 for CO Stock	31-Dec-16	31-Dec-16	2016	Completed	Exchange Wide	18,000	\$6,078	2232	Circuit	Voice
CAVIX CT OCA CARDS FOR STOCK	31-Oct-16	31-Oct-16	2016	Completed	Exchange Wide	18,000	\$7,723	2232	Circuit	Voice
Inverter at Okmulgee POP	31-Mar-16	31-Mar-16	2016	Completed	Exchange Wide	18,000	\$7,73	2232	Circuit	Voice
Adtran Total Access Battery and 903 serie	29-Feb-16	29-Feb-16	2016	Completed	Exchange Wide	18,000	\$9,74	2232	Circuit	Voice
8096 ONTS	31-Oct-16	31-Oct-16	2016	Completed	Exchange Wide	18,000	\$9,84	2232	Circuit	Voice
Cable Management for Server Rack	31-Mar-16	31-Mar-16	2016	Completed	Exchange Wide	18,000	\$1,086	2232	Circuit	Voice
GPON SFP FOR GLENPOOL, EDI	31-Oct-16	31-Oct-16	2016	Completed	Exchange Wide	18,000	\$1,359	2232	Circuit	Voice
CLOUD MANAGED 802.11 OUTDOOR AP	1-Jul-16	1-Jul-16	2016	Completed	Exchange Wide	18,000	\$1,632	2232	Circuit	Voice



PART A - PROJECT LIST FOR 2015-2024										
Project	Start Date	Completion	Year	Status	Areas	Estimated Population	Total Dollars	Part 32 Account	Category	Notes
ODC-40 HEAT EXCHANGER	31-Oct-16	31-Oct-16	2016	Completed	Exchange Wide	18,000	\$2,169	2232	Circuit	Both
706BK ONT	30-Aug-16	30-Aug-16	2016	Completed	Exchange Wide	18,000	\$2,582	2232	Circuit	Voice
Pen for Estates on the River	31-Dec-16	31-Dec-16	2016	Completed	Exchange Wide	18,000	\$2,707	2232	Circuit	Voice
GPON	31-Oct-16	31-Oct-16	2016	Completed	Exchange Wide	18,000	\$2,707	2232	Circuit	Voice
GPON SFP FOR ESTATES AT THE RIVER	31-Aug-16	31-Aug-16	2016	Completed	Exchange Wide	18,000	\$2,707	2232	Circuit	Voice
VDSL Cards for Country Meadows	30-Sep-16	30-Sep-16	2016	Completed	Exchange Wide	18,000	\$3,286	2232	Circuit	Voice
COMBINATION VDSL2 & P	30-Sep-16	30-Sep-16	2016	Completed	Exchange Wide	18,000	\$3,304	2232	Circuit	Voice
ADTRAN 7A-9224	14-Apr-16	14-Apr-16	2016	Completed	Exchange Wide	18,000	\$3,361	2232	Circuit	Voice
18-S1 & MEMORIAL RECTIFIER	31-Oct-16	31-Oct-16	2016	Completed	Exchange Wide	18,000	\$3,405	2232	Circuit	Voice
VDSL CARD FOR 221ST & HANFORD	31-Oct-16	31-Oct-16	2016	Completed	Exchange Wide	18,000	\$3,405	2232	Circuit	Voice
VDSL CARD AT 201ST AND YALE	31-Oct-16	31-Oct-16	2016	Completed	Exchange Wide	18,000	\$3,405	2232	Circuit	Voice
VDSL FOR TWIN HILLS	31-Aug-16	31-Aug-16	2016	Completed	Exchange Wide	18,000	\$3,405	2232	Circuit	Voice
VDSL Cards for Hickory Ranch	31-Aug-16	31-Aug-16	2016	Completed	Exchange Wide	18,000	\$3,405	2232	Circuit	Voice
VDSL CARD FOR 191TH AND 129TH REMOTE	31-Oct-16	31-Oct-16	2016	Completed	Exchange Wide	18,000	\$3,405	2232	Circuit	Voice
VDSL CARD FOR SPANISH PEAKS	31-Oct-16	31-Oct-16	2016	Completed	Exchange Wide	18,000	\$3,405	2232	Circuit	Voice
C7 VDSL Cards for Blythoma	31-Aug-16	31-Aug-16	2016	Completed	Exchange Wide	18,000	\$3,405	2232	Circuit	Voice
SFP for PON Expansion	31-Mar-16	31-Mar-16	2016	Completed	Exchange Wide	18,000	\$3,926	2232	Circuit	Voice
GPON SFP OIM 2.4/1.26-F	30-Sep-16	30-Sep-16	2016	Completed	Exchange Wide	18,000	\$4,153	2232	Circuit	Voice
706BK ONT Module	22-Sep-16	22-Sep-16	2016	Completed	Exchange Wide	18,000	\$4,229	2232	Circuit	Voice
706BK ONT3 POTS, 4GE, 4	31-Oct-16	31-Oct-16	2016	Completed	Exchange Wide	18,000	\$5,427	2232	Circuit	Voice
BACKUP GENERATOR SERVICE	29-Jan-16	29-Jan-16	2016	Completed	Exchange Wide	18,000	\$5,427	2232	Circuit	Voice
PINACLE PACKET TRAP SERVICES	31-Dec-16	31-Dec-16	2016	Completed	Exchange Wide	18,000	\$11,268	2232	Circuit	Voice
CAUX ADVANCE PROGRAM	31-Aug-16	31-Aug-16	2016	Completed	Exchange Wide	18,000	\$11,268	2232	Circuit	Voice
GPON for Christopher Ranch	31-Mar-16	31-Mar-16	2016	Completed	Exchange Wide	18,000	\$11,664	2232	Circuit	Voice
GPON to Riverbend	30-Apr-16	30-Apr-16	2016	Completed	Exchange Wide	18,000	\$12,000	2232	Circuit	Voice
Switchstack Impl Calif E7	31-Dec-16	31-Dec-16	2016	Completed	Exchange Wide	18,000	\$12,428	2232	Circuit	Voice
V7 VDSL FOR WHITEHAWK	31-Aug-16	31-Aug-16	2016	Completed	Exchange Wide	18,000	\$13,680	2232	Circuit	Voice
Callx Flow Analyzer	31-Dec-16	31-Dec-16	2016	Completed	Exchange Wide	18,000	\$15,685	2232	Circuit	Voice
Backup batteries for Remotes	31-Dec-16	31-Dec-16	2016	Completed	Exchange Wide	18,000	\$18,467	2232	Circuit	Voice
E7 VDSL FOR SOUTH OFFICE	31-May-16	31-May-16	2016	Completed	Exchange Wide	18,000	\$21,161	2232	Circuit	Voice
E7 GPON Card for White Hawk	29-Feb-16	29-Feb-16	2016	Completed	Exchange Wide	18,000	\$27,685	2232	Circuit	Voice
2016 VM Ware Host Replacement	30-Sep-16	30-Sep-16	2016	Completed	Exchange Wide	18,000	\$47,971	2232	Circuit	Voice
Batteries for North CO	31-Oct-16	31-Oct-16	2016	Completed	Exchange Wide	18,000	\$189,231	2232	Circuit	Voice
Calix E7 VDSL Project	31-Dec-16	31-Dec-16	2016	Completed	Exchange Wide	18,000	\$1,096	2410	Cable & Wire	Both
December Aerial Drops	31-Jul-16	31-Jul-16	2016	Completed	Exchange Wide	18,000	\$5,474	2420	Cable & Wire	Both
FDT at Rivers Edge	29-Feb-16	29-Feb-16	2016	Completed	Exchange Wide	18,000	\$1,276	2420	Cable & Wire	Both
Willow Creek Subdivision	31-Jan-16	31-Jan-16	2016	Completed	Exchange Wide	18,000	\$283	2420	Cable & Wire	Both
Quail Creek Subdivision	31-Jan-16	31-Jan-16	2016	Completed	Exchange Wide	18,000	\$1,912	2420	Cable & Wire	Both
January Buried Drops	29-Feb-16	29-Feb-16	2016	Completed	Exchange Wide	18,000	\$10,687	2420	Cable & Wire	Both
February Buried Drops	30-Apr-16	30-Apr-16	2016	Completed	Exchange Wide	18,000	\$5,473	2420	Cable & Wire	Both
March Buried Drops	30-Apr-16	30-Apr-16	2016	Completed	Exchange Wide	18,000	\$3,266	2420	Cable & Wire	Both
April Buried Drops	30-Apr-16	30-Apr-16	2016	Completed	Exchange Wide	18,000	\$4,687	2420	Cable & Wire	Both
May Buried Drops	31-May-16	31-May-16	2016	Completed	Exchange Wide	18,000	\$7,218	2420	Cable & Wire	Both
June Buried Drops	30-Jun-16	30-Jun-16	2016	Completed	Exchange Wide	18,000	\$2,310	2420	Cable & Wire	Both
July Buried Drops	31-Jul-16	31-Jul-16	2016	Completed	Exchange Wide	18,000	\$5,581	2420	Cable & Wire	Both
August Buried Drops	30-Sep-16	30-Sep-16	2016	Completed	Exchange Wide	18,000	\$4,467	2420	Cable & Wire	Both
September Buried Drops	30-Nov-16	30-Nov-16	2016	Completed	Exchange Wide	18,000	\$4,769	2420	Cable & Wire	Both
October Buried Drops	30-Nov-16	30-Nov-16	2016	Completed	Exchange Wide	18,000	\$4,992	2420	Cable & Wire	Both
November Buried Drops	31-Dec-16	31-Dec-16	2016	Completed	Exchange Wide	18,000	\$18,801	2420	Cable & Wire	Both
December Buried Drops	30-Apr-16	30-Apr-16	2016	Completed	Exchange Wide	18,000	\$895	2420	Cable & Wire	Both
136th & Memorial Fiber Conversion	30-Apr-16	30-Apr-16	2016	Completed	Exchange Wide	18,000	\$1,676	2420	Cable & Wire	Both
10496 South 87th East Access	31-Dec-16	31-Dec-16	2016	Completed	Exchange Wide	18,000	\$18,502	2420	Cable & Wire	Both
111th & Mirgo Facilities Replacement	30-Apr-16	30-Apr-16	2016	Completed	Exchange Wide	18,000	\$377	2420	Cable & Wire	Both
Spring Hill Farms	31-Dec-16	31-Dec-16	2016	Completed	Exchange Wide	18,000	\$158	2420	Cable & Wire	Both
December Buried Fiber Drops	30-Jun-16	30-Jun-16	2016	Completed	Exchange Wide	18,000	\$533	2420	Cable & Wire	Both
Spring Hill Farms	29-Feb-16	29-Feb-16	2016	Completed	Exchange Wide	18,000	\$5,340	2420	Cable & Wire	Both
Wood Hollow Estates	29-Feb-16	29-Feb-16	2016	Completed	Exchange Wide	18,000	\$43,990	2420	Cable & Wire	Both

# APPENDIX A

Study Area Code: 411939  
Study Area Name: Beaver Telephone Community  
Company Contact Name: Frank Reinbold  
Contact Telephone Number: 918-766-8970 x-219  
Contact Email Address: frankreinbold@bta.net

## PART A - PROJECT LIST FOR 2016-2021

Project	Start Date	Completion	Year	Status	Areas	Estimated Population	Total Dollars	Part 32 Account	Category	Voice, Broadband,
Quail Creek Subdivision	31-Jan-16	31-Jan-16	2016	Completed	Exchange Wide	18,000	\$54,774	2420	Cable & Wire	Both
1404 E. 251st St. Fiber Conversion	31-Mar-16	31-Mar-16	2016	Completed	Exchange Wide	18,000	\$4,122	2420	Cable & Wire	Both
7007 E 125th St. S. Repair 48 Fiber	31-May-16	31-May-16	2016	Completed	Exchange Wide	18,000	\$405	2420	Cable & Wire	Both
JANUARY BURIED FIBER DROPS	31-Jan-16	31-Jan-16	2016	Completed	Exchange Wide	18,000	\$9,889	2420	Cable & Wire	Both
FEBRUARY BURIED FIBER DROPS	29-Feb-16	29-Feb-16	2016	Completed	Exchange Wide	18,000	\$11,569	2420	Cable & Wire	Both
MARCH BURIED FIBER DROPS	30-Apr-16	30-Apr-16	2016	Completed	Exchange Wide	18,000	\$13,911	2420	Cable & Wire	Both
APRIL BURIED FIBER DROPS	30-Apr-16	30-Apr-16	2016	Completed	Exchange Wide	18,000	\$9,566	2420	Cable & Wire	Both
MAY BURIED FIBER DROPS	31-May-16	31-May-16	2016	Completed	Exchange Wide	18,000	\$8,720	2420	Cable & Wire	Both
JUNE BURIED FIBER DROPS	30-Jun-16	30-Jun-16	2016	Completed	Exchange Wide	18,000	\$5,292	2420	Cable & Wire	Both
JULY BURIED FIBER DROPS	31-Jul-16	31-Jul-16	2016	Completed	Exchange Wide	18,000	\$3,085	2420	Cable & Wire	Both
AUGUST BURIED FIBER DROPS	31-Aug-16	31-Aug-16	2016	Completed	Exchange Wide	18,000	\$6,554	2420	Cable & Wire	Both
SEPTEMBER BURIED FIBER DROPS	30-Sep-16	30-Sep-16	2016	Completed	Exchange Wide	18,000	\$4,722	2420	Cable & Wire	Both
OCTOBER BURIED FIBER DROPS	30-Nov-16	30-Nov-16	2016	Completed	Exchange Wide	18,000	\$6,542	2420	Cable & Wire	Both
NOVEMBER BURIED FIBER DROPS	31-Dec-16	31-Dec-16	2016	Completed	Exchange Wide	18,000	\$6,441	2420	Cable & Wire	Both
DECEMBER BURIED FIBER DROPS	31-Dec-16	31-Dec-16	2016	Completed	Exchange Wide	18,000	\$12,130	2420	Cable & Wire	Both
136th & Memorial Fiber Conversion	30-Apr-16	30-Apr-16	2016	Completed	Exchange Wide	18,000	\$20,406	2420	Cable & Wire	Both
Providence Hills	30-Apr-16	30-Apr-16	2016	Completed	Exchange Wide	18,000	\$3,940	2420	Cable & Wire	Both
131st Memorial to Wingo	31-Mar-16	31-Mar-16	2016	Completed	Exchange Wide	18,000	\$19,776	2420	Cable & Wire	Both
Berwick South Subdivision	30-Apr-16	30-Apr-16	2016	Completed	Exchange Wide	18,000	\$46,946	2420	Cable & Wire	Both
Summeet Subdivision	30-Apr-16	30-Apr-16	2016	Completed	Exchange Wide	18,000	\$26,986	2420	Cable & Wire	Both
Concho at 10220 South Memorial	29-Feb-16	29-Feb-16	2016	Completed	Exchange Wide	18,000	\$5,792	2420	Cable & Wire	Both
State Farm Insurance	30-Apr-16	30-Apr-16	2016	Completed	Exchange Wide	18,000	\$2,024	2420	Cable & Wire	Both
Springhill Farms	30-Apr-16	30-Apr-16	2016	Completed	Exchange Wide	18,000	\$213	2420	Cable & Wire	Both
Willow Creek	30-Apr-16	30-Apr-16	2016	Completed	Exchange Wide	18,000	\$9,652	2420	Cable & Wire	Both
Quail Creek	30-Apr-16	30-Apr-16	2016	Completed	Exchange Wide	18,000	\$14,060	2420	Cable & Wire	Both
Windriver Crossing	30-Apr-16	30-Apr-16	2016	Completed	Exchange Wide	18,000	\$6,280	2420	Cable & Wire	Both
The Estates at the River	30-Apr-16	30-Apr-16	2016	Completed	Exchange Wide	18,000	\$62,919	2420	Cable & Wire	Both
13816 S 20rd Pl	30-Apr-16	30-Apr-16	2016	Completed	Exchange Wide	18,000	\$461	2420	Cable & Wire	Both
Seven Lakes	30-Apr-16	30-Apr-16	2016	Completed	Exchange Wide	18,000	\$6,490	2420	Cable & Wire	Both
The Trails at White Hawk II	30-Nov-16	30-Nov-16	2016	Completed	Exchange Wide	18,000	\$49,923	2420	Cable & Wire	Both
6333 E 120th Ct S - 12 Fiber Entrance	31-Dec-16	31-Dec-16	2016	Completed	Exchange Wide	18,000	\$6	2420	Cable & Wire	Both
14722 Lakewood Place - Lantern Hills	30-Sep-16	30-Sep-16	2016	Completed	Exchange Wide	18,000	\$4,511	2420	Cable & Wire	Both
Providence Hills IV Subdivision	30-Sep-16	30-Sep-16	2016	Completed	Exchange Wide	18,000	\$253	2420	Cable & Wire	Both
10122 S. Memorial Drive - Homepods	30-Sep-16	30-Sep-16	2016	Completed	Exchange Wide	18,000	\$342	2420	Cable & Wire	Both
Valley Pecan Grove	31-Dec-16	31-Dec-16	2016	Completed	Exchange Wide	18,000	\$7,435	2420	Cable & Wire	Both
Total							\$1,395,630			

# APPENDIX A

Study Area Code  
 Study Area Name  
 Company Contact Name  
 Contact Telephone Number  
 Contact Email Address

4319639  
 Bahr Telephone Company  
 Frank Pothman  
 915-345-8700 x2119  
 fpothman@tdc.net

PART A - PROJECT LIST FOR 2016-2021

Project	Start Date	Completion	Year	Status	Areas	Estimated Population	Total Dollars	Part 32 Account	Category	Voice, Broadband, Both
Construction Vehicle Replacement	30-Sep-17	30-Sep-17	2017	Planned	Exchange Wide	18,000	\$38,000	2112	Vehicles	Both
IGS Vehicle Replacement	30-Sep-17	30-Sep-17	2017	Planned	Exchange Wide	18,000	\$22,500	2112	Vehicles	Both
New Construction Crew Vehicle	30-Sep-17	30-Sep-17	2017	Planned	Exchange Wide	18,000	\$90,000	2112	Vehicles	Both
Miscellaneous Additions	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$25,000	2116	General Support	Both
Miscellaneous Additions	30-Jun-17	30-Jun-17	2017	Planned	Exchange Wide	18,000	\$10,000	2116	General Support	Both
Miscellaneous Additions	30-Sep-17	30-Sep-17	2017	Planned	Exchange Wide	18,000	\$10,000	2116	General Support	Both
Miscellaneous Additions	31-Dec-17	31-Dec-17	2017	Planned	Exchange Wide	18,000	\$17,000	2116	General Support	Both
Trailer Replacement	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$4,224	2116	General Support	Both
IGS Optic Equipment	30-Jun-17	30-Jun-17	2017	Planned	Exchange Wide	18,000	\$9,000	2116	General Support	Both
IGS Optic Equipment	30-Sep-17	30-Sep-17	2017	Planned	Exchange Wide	18,000	\$4,500	2116	General Support	Both
IGS Optic Equipment	30-Jun-17	30-Jun-17	2017	Planned	Exchange Wide	18,000	\$75,000	2116	General Support	Both
Drill Rig and Excavator	30-Jun-17	30-Jun-17	2017	Planned	Exchange Wide	18,000	\$150,000	2116	General Support	Both
Win Excavator	31-Dec-17	31-Dec-17	2017	Planned	Exchange Wide	18,000	\$7,500	2116	General Support	Both
Ethernet/IP Layer Testing	30-Sep-17	30-Sep-17	2017	Planned	Exchange Wide	18,000	\$15,000	2116	General Support	Both
Additional Test Set	30-Sep-17	30-Sep-17	2017	Planned	Exchange Wide	18,000	\$15,000	2116	General Support	Both
1061 Test License - we test at 1 Gbps today	30-Sep-17	30-Sep-17	2017	Planned	Exchange Wide	18,000	\$5,000	2116	General Support	Both
Fiber Probe - light measurement	30-Sep-17	30-Sep-17	2017	Planned	Exchange Wide	18,000	\$5,000	2116	General Support	Both
PRI - ability to test PRI on the same test set	30-Sep-17	30-Sep-17	2017	Planned	Exchange Wide	18,000	\$7,000	2122	General Support	Both
Miscellaneous Furniture	30-Sep-17	30-Sep-17	2017	Planned	Exchange Wide	18,000	\$3,000	2124	General Support	Both
Service Delivery PC Replacement	30-Jun-17	30-Jun-17	2017	Planned	Exchange Wide	18,000	\$1,500	2124	General Support	Both
Engineering PC Replacement	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$15,000	2124	General Support	Both
Firewall	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$3,000	2124	General Support	Both
Administrator Computer and Peripherals	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$3,000	2124	General Support	Both
Laptops	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$2,500	2124	General Support	Both
PC UPS Maintenance/Replacements	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$500	2124	General Support	Both
Desktop Software	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$6,000	2124	General Support	Both
Windows Server OS Software Licensing	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$5,000	2124	General Support	Both
EMC DR Disk Expansion	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$10,000	2124	General Support	Both
Microsoft Office	30-Jun-17	30-Jun-17	2017	Planned	Exchange Wide	18,000	\$5,000	2124	General Support	Both
Microsoft Office	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$7,500	2124	General Support	Both
VMware Host Replacements (3) (NLT Sept. 2016)	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$25,000	2124	General Support	Both
VMware Host Replacements (3) (NLT Sept. 2016)	30-Jun-17	30-Jun-17	2017	Planned	Exchange Wide	18,000	\$7,000	2124	General Support	Both
Dedicated SAN Switches	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$5,000	2124	General Support	Both
Passport Management Platform	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$6,740	2230	Circuit	Both
AS/DC, 100M, Batteries for Remotes	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$50,936	2230	Circuit	Both
Callix E7 Growth	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$18,696	2230	Circuit	Both
Callix CT VDSL Growth	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$25,698	2230	Circuit	Both
Out of Warranty C7 and ES Card Repair	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$12,380	2230	Circuit	Both
OPON STRs for Growth	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$20,000	2230	Circuit	Both
Brocade 16 & 106 Interfacs	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$69,667	2230	Circuit	Both
E7 VDSL Card (Replace ES-111/121 with E7 VDSL)	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$10,999	2230	Circuit	Both
E7-2 Shift (Replace ES-111/121 with E7 VDSL)	30-Jun-17	30-Jun-17	2017	Planned	Exchange Wide	18,000	\$1,400	2230	Circuit	Both
Callix ODC-20 Heat Exchanger (Replace ES-111/121 with E7)	30-Jun-17	30-Jun-17	2017	Planned	Exchange Wide	18,000	\$3,892	2230	Circuit	Both
Callix ODC-40 Heat Exchanger (Replace ES-111/121 with E7)	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$32,000	2230	Circuit	Both
Upgrade E7-2 to E7-20	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$5,000	2230	Circuit	Both
106 Tap Ports	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$915	2230	Circuit	Both
Miscellaneous Additions	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$20,000	2420	Cable & Wire	Both
Routine Work Order Activity	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$70,000	2420	Cable & Wire	Both
Aerial Copper Restoration (AmbsX/Vibros)	31-Dec-17	31-Dec-17	2017	Planned	Exchange Wide	18,000	\$16,000	2420	Cable & Wire	Both
1214s and Mingo Release	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$95,000	2420	Cable & Wire	Both
1314s and Mingo Release	30-Jun-17	30-Jun-17	2017	Planned	Exchange Wide	18,000	\$70,000	2420	Cable & Wire	Both

# APPENDIX A

Study Area Code \_\_\_\_\_  
Study Area Name \_\_\_\_\_  
Company Contact Name \_\_\_\_\_  
Contact Telephone Number \_\_\_\_\_  
Contact Email Address \_\_\_\_\_

431939  
Fibrebee Company  
Frank P. Abson  
415-765-5890 x-219  
frank@fibrebee.net

## PART A - PROJECT LIST FOR 2016-2021

Project	Start Date	Completion	Year	Status	Areas	Estimated Population	Total Dollars	Part 32 Account	Category	Voice, Broadband,
Bixby Memory Care	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$15,000	2420	Cable & Wire	Both
New Build Commercial (No ONTS)	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$60,000	2420	Cable & Wire	Both
New Drop Bury Copper	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$39,187	2420	Cable & Wire	Both
Underground Copper Restoration (Aging Underground)	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$45,000	2420	Cable & Wire	Both
New Drop Bury Fiber	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$21,935	2420	Cable & Wire	Both
Underground Copper Restoration (Aging Underground)	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$125,000	2420	Cable & Wire	Both
Test Equipment	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$5,000	2420	Cable & Wire	Both
Quail Creek Villas (No ONT Cost)	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$27,000	2420	Cable & Wire	Both
Chateau Villas (No ONT Cost)	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$55,000	2420	Cable & Wire	Both
Trails at Whitehawk Phase 2	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000	\$57,500	2420	Cable & Wire	Both
Pine Valley	30-Sep-17	30-Sep-17	2017	Planned	Exchange Wide	18,000	\$18,200	2420	Cable & Wire	Both
Sheridan Village	30-Sep-17	30-Sep-17	2017	Planned	Exchange Wide	18,000	\$30,700	2420	Cable & Wire	Both
3 Lakes Estates	31-Dec-17	31-Dec-17	2017	Planned	Exchange Wide	18,000	\$6,500	2420	Cable & Wire	Both
Bricktown Square	30-Sep-17	30-Sep-17	2017	Planned	Exchange Wide	18,000	\$50,400	2420	Cable & Wire	Both
Bricktown Square	31-Dec-17	31-Dec-17	2017	Planned	Exchange Wide	18,000	\$35,400	2420	Cable & Wire	Both
Chisom Ranch 2	30-Jun-17	30-Jun-17	2017	Planned	Exchange Wide	18,000	\$11,200	2420	Cable & Wire	Both
Chisom Ranch 2	31-Dec-17	31-Dec-17	2017	Planned	Exchange Wide	18,000	\$40,700	2420	Cable & Wire	Both
Conrad Farms	31-Dec-17	31-Dec-17	2017	Planned	Exchange Wide	18,000	\$14,000	2420	Cable & Wire	Both
Memorial Square Amended	31-Dec-17	31-Dec-17	2017	Planned	Exchange Wide	18,000	\$17,200	2420	Cable & Wire	Both
Quail Creek Villas of Bixby	30-Sep-17	30-Sep-17	2017	Planned	Exchange Wide	18,000	\$26,300	2420	Cable & Wire	Both
Prestley Heights	30-Sep-17	30-Sep-17	2017	Planned	Exchange Wide	18,000	\$56,000	2420	Cable & Wire	Both
Willow Creek 2	30-Jun-17	30-Jun-17	2017	Planned	Exchange Wide	18,000	\$17,500	2420	Cable & Wire	Both
Providence Hills 4	31-Dec-17	31-Dec-17	2017	Planned	Exchange Wide	18,000	\$11,000	2420	Cable & Wire	Both
Oak estates	31-Dec-17	31-Dec-17	2017	Planned	Exchange Wide	18,000	\$11,000	2420	Cable & Wire	Both
Village at Twin Creeks	31-Dec-17	31-Dec-17	2017	Planned	Exchange Wide	18,000	\$28,134	2420	Cable & Wire	Both
FTTH Conversions IEC	30-Jun-17	30-Jun-17	2017	Planned	Exchange Wide	18,000	\$34,259	2420	Cable & Wire	Both
ONT	31-Mar-17	31-Mar-17	2017	Planned	Exchange Wide	18,000		2420	Cable & Wire	Both
Total							\$2,057,229			

# APPENDIX A

Study Area Code  
 Study Area Name  
 Company Contact Name  
 Company Telephone Number  
 Contact Email Address

431989  
 Blaine Telephone Company  
 Paula Patrick  
 415-566-8070 x319  
 trehbern@blaine.net

PART A - PROJECT LIST FOR 2016-2021

Project	Start Date	Completion	Year	Status	Area	Estimated Population	Total Dollars	Part 32 Account	Category	Vote, Broadband, Both
Engineering Vehicle Replacement	30-Sep-18	30-Sep-18	2018	Planned	Exchange Wide	18,000	\$45,000	2112	Vehicles	Both
Construction Vehicle Replacement	30-Sep-18	30-Sep-18	2018	Planned	Exchange Wide	18,000	\$68,000	2112	Vehicles	Both
Cargo Van	30-Sep-18	30-Sep-18	2018	Planned	Exchange Wide	18,000	\$40,000	2112	Vehicles	Both
Estimated Additions	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$68,000	2116	General Support	Both
Construction Test Equipment	30-Jun-18	30-Jun-18	2018	Planned	Exchange Wide	18,000	\$30,500	2116	General Support	Both
Trailer Maintenance/Replacement	30-Jun-18	30-Jun-18	2018	Planned	Exchange Wide	18,000	\$12,000	2116	General Support	Both
Lab Test Equipment Replacement	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$20,000	2116	General Support	Both
Miscellaneous Furniture	30-Sep-18	30-Sep-18	2018	Planned	Exchange Wide	18,000	\$2,000	2112	General Support	Both
Estimated Additions	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$20,000	2114	General Support	Both
Service Delivery PC Replacement	31-Dec-18	31-Dec-18	2018	Planned	Exchange Wide	18,000	\$1,500	2124	General Support	Both
Engineering PC Replacement	31-Dec-18	31-Dec-18	2018	Planned	Exchange Wide	18,000	\$1,500	2124	General Support	Both
Administrator Computer and Peripherals	30-Jun-18	30-Jun-18	2018	Planned	Exchange Wide	18,000	\$500	2124	General Support	Both
Laptops	30-Jun-18	30-Jun-18	2018	Planned	Exchange Wide	18,000	\$3,000	2124	General Support	Both
PC UPS Maintenance/Replacements	30-Jun-18	30-Jun-18	2018	Planned	Exchange Wide	18,000	\$2,500	2124	General Support	Both
Desktop Software	30-Jun-18	30-Jun-18	2018	Planned	Exchange Wide	18,000	\$500	2124	General Support	Both
Wireless Office	30-Jun-18	30-Jun-18	2018	Planned	Exchange Wide	18,000	\$8,200	2124	General Support	Both
Estimated Additions	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$90,000	2212	Switch	Both
Dedicated SAN Switches	31-Dec-18	31-Dec-18	2018	Planned	Exchange Wide	18,000	\$14,000	2212	Switch	Both
VNware Host RAM Expansion	31-Dec-18	31-Dec-18	2018	Planned	Exchange Wide	18,000	\$6,740	2212	Switch	Both
48/DC, 100Ah Batteries for Remotes	31-Dec-18	31-Dec-18	2018	Planned	Exchange Wide	18,000	\$6,740	2212	Circuit	Both
Callx E7 Growth	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$110,356	2232	Circuit	Both
Callx C7 VDSL Growth	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$18,696	2232	Circuit	Both
Out of Warranty C7 and ES Card Repair	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$25,698	2232	Circuit	Both
GPON SFPs for growth	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$12,380	2232	Circuit	Both
Brocade 16 & 10G Interfaces	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$40,000	2232	Circuit	Both
48/DC, 100Ah Batteries for Remotes	30-Sep-18	30-Sep-18	2018	Planned	Exchange Wide	18,000	\$6,740	2232	Circuit	Both
E7 VDSL Card (Replace ES-111/121 with E7 VDSL)	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$69,667	2232	Circuit	Both
E7 2nd Port (Replace ES-111/121 with E7 VDSL)	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$10,999	2232	Circuit	Both
Callx ODC-20 Heat Exchanger (Replace ES-111/121 with E7)	30-Jun-18	30-Jun-18	2018	Planned	Exchange Wide	18,000	\$1,400	2232	Circuit	Both
Callx ODC-40 Heat Exchanger (Replace ES-111/121 with E7)	30-Jun-18	30-Jun-18	2018	Planned	Exchange Wide	18,000	\$3,882	2232	Circuit	Both
10G TAP Ports	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$3,000	2232	Circuit	Both
Wireless Additions	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$915	2232	Circuit	Both
Routine Work Order Activity	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$20,000	2410	Cable & Wire	Both
121st and Mingo Relocate	30-Jun-18	30-Jun-18	2018	Planned	Exchange Wide	18,000	\$48,000	2420	Cable & Wire	Both
111th and Mingo Relocate	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$25,000	2420	Cable & Wire	Both
131st and Mingo Relocate	30-Jun-18	30-Jun-18	2018	Planned	Exchange Wide	18,000	\$35,000	2420	Cable & Wire	Both
Routine Work Order Activity	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$98,541	2420	Cable & Wire	Both
Aerial Copper Restoration (4Mbps/1Mbps)	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$54,806	2420	Cable & Wire	Both
VDSL Loop Reduction	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$150,000	2420	Cable & Wire	Both
161st and Memorial Relocate	30-Jun-18	30-Jun-18	2018	Planned	Exchange Wide	18,000	\$54,950	2420	Cable & Wire	Both
Various Relocate	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$65,000	2420	Cable & Wire	Both
New Build Residential (No ONTS)	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$79,800	2420	Cable & Wire	Both
New Build Commercial (No ONTS)	30-Jun-18	30-Jun-18	2018	Planned	Exchange Wide	18,000	\$46,880	2420	Cable & Wire	Both
New Drop Bury Copper	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$85,000	2420	Cable & Wire	Both
Underground Copper Restoration (Aging Underground)	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$79,559	2420	Cable & Wire	Both
Estimated Additions	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$30,000	2420	Cable & Wire	Both
Underground Copper Restoration (Aging Underground)	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$62,500	2420	Cable & Wire	Both
Chertem Village (No ONT Core)	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$27,500	2420	Cable & Wire	Both
Pine Valley	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$14,750	2420	Cable & Wire	Both
Sheridan Village	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$10,700	2420	Cable & Wire	Both
3 Lakes Estates	30-Sep-18	30-Sep-18	2018	Planned	Exchange Wide	18,000	\$23,200	2420	Cable & Wire	Both
Backdown Square	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$6,500	2420	Cable & Wire	Both
Bride Creek Ranch	30-Jun-18	30-Jun-18	2018	Planned	Exchange Wide	18,000	\$20,000	2420	Cable & Wire	Both
Chisum Ranch 2	30-Jun-18	30-Jun-18	2018	Planned	Exchange Wide	18,000	\$35,400	2420	Cable & Wire	Both
Chisum Ranch Villas 2	30-Jun-18	30-Jun-18	2018	Planned	Exchange Wide	18,000	\$11,200	2420	Cable & Wire	Both

# APPENDIX A

Study Area Code 431959  
 Study Area Name Brier Telephone Company  
 Company Contact Name Frank Pashka  
 Contact Telephone Number 415-566-8700 x-219  
 Contact Email Address fpashka@bcb.net

## PART A - PROJECT LIST FOR 2016-2021

Project	Start Date	Completion	Year	Status	Area	Estimated Population	Total Dollars	Part 32 Account	Category	Voice, Broadband,
Conrad Farms	30-Jun-18	30-Jun-18	2018	Planned	Exchange Wide	18,000	\$33,700	2420	Cable & Wire	Both
Memorial Square Amended	30-Jun-18	30-Jun-18	2018	Planned	Exchange Wide	18,000	\$14,000	2420	Cable & Wire	Both
Quail Creek Villas of Bixby	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$52,200	2420	Cable & Wire	Both
Presley Heights	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$57,300	2420	Cable & Wire	Both
Willow Creek 2	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$53,000	2420	Cable & Wire	Both
Addison Creek	30-Jun-18	30-Jun-18	2018	Planned	Exchange Wide	18,000	\$90,500	2420	Cable & Wire	Both
Cottages at Quail Creek	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$20,000	2420	Cable & Wire	Both
Estates at The River 2	30-Jun-18	30-Jun-18	2018	Planned	Exchange Wide	18,000	\$38,000	2420	Cable & Wire	Both
ONT	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$71,944	2420	Cable & Wire	Both
New Drop Bury Fiber	31-Mar-18	31-Mar-18	2018	Planned	Exchange Wide	18,000	\$96,000	2420	Cable & Wire	Both
Southwood FTH A/B (Includes ONTs)	30-Sep-18	30-Sep-18	2018	Planned	Exchange Wide	18,000	\$105,858	2420	Cable & Wire	Both
Southwood 2 FTH (Includes ONTs)	30-Sep-18	30-Sep-18	2018	Planned	Exchange Wide	18,000	\$82,318	2420	Cable & Wire	Both
Total							\$2,499,748			

# APPENDIX A

Study Area Code 431969  
 Study Area Name B&B Stephens Company  
 Company Contact Name Frank Rubinio  
 Contact Telephone Number 434-564-8800 x419  
 Contact Email Address frkrubin@bbs.com

PART A - PROJECT LIST FOR 2016-2021

Project	Start Date	Completion	Year	Status	Areas	Estimated Population	Total Dollars	Part 32 Account	Category	Voice, Broadband, Both
Engineering Vehicle Replacement	31-Mar-19	31-Mar-19	2019	Planned	Exchange Wide	18,000	\$30,000	2112	Vehicles	Both
Construction Vehicle Replacement	30-Jun-19	30-Jun-19	2019	Planned	Exchange Wide	18,000	\$68,000	2112	Vehicles	Both
I&T Vehicle Replacement	30-Jun-19	30-Jun-19	2019	Planned	Exchange Wide	18,000	\$60,000	2112	Vehicles	Both
Estimated additions	31-Mar-19	31-Mar-19	2019	Planned	Exchange Wide	18,000	\$70,000	2116	General Support	Both
Construction Test Equipment	30-Jun-19	30-Jun-19	2019	Planned	Exchange Wide	18,000	\$20,000	2116	General Support	Both
Trailer Maintenance/Replacement	30-Jun-19	30-Jun-19	2019	Planned	Exchange Wide	18,000	\$21,000	2116	General Support	Both
I&T Tool Replacement	31-Mar-19	31-Mar-19	2019	Planned	Exchange Wide	18,000	\$4,000	2116	General Support	Both
I&T Test Equipment Replacement	31-Mar-19	31-Mar-19	2019	Planned	Exchange Wide	18,000	\$15,500	2116	General Support	Both
Miscellaneous Furniture	30-Sep-19	30-Sep-19	2019	Planned	Exchange Wide	18,000	\$2,000	2122	General Support	Both
Estimated additions	31-Mar-19	31-Mar-19	2019	Planned	Exchange Wide	18,000	\$5,000	2124	General Support	Both
Service Delivery PC Replacement	31-Dec-19	31-Dec-19	2019	Planned	Exchange Wide	18,000	\$1,500	2124	General Support	Both
Estimated additions	30-Sep-19	30-Sep-19	2019	Planned	Exchange Wide	18,000	\$20,000	2124	General Support	Both
Administrator Computer and Peripherals	30-Sep-19	30-Sep-19	2019	Planned	Exchange Wide	18,000	\$500	2124	General Support	Both
Laptops	30-Sep-19	30-Sep-19	2019	Planned	Exchange Wide	18,000	\$9,000	2124	General Support	Both
PC UPS Maintenance/Replacements	30-Sep-19	30-Sep-19	2019	Planned	Exchange Wide	18,000	\$2,500	2124	General Support	Both
Desktop Software	30-Sep-19	30-Sep-19	2019	Planned	Exchange Wide	18,000	\$500	2124	General Support	Both
Microsoft Office	30-Sep-19	30-Sep-19	2019	Planned	Exchange Wide	18,000	\$8,400	2124	General Support	Both
Migrate CIS Function to VM, IIG Function to AGC Channel	30-Sep-19	30-Sep-19	2019	Planned	Exchange Wide	18,000	\$25,000	2212	Switch	Both
Calix E7 Growth	30-Sep-19	30-Sep-19	2019	Planned	Exchange Wide	18,000	\$55,168	2232	Circuit	Both
Calix C7 VDSL Growth	30-Sep-19	30-Sep-19	2019	Planned	Exchange Wide	18,000	\$9,948	2232	Circuit	Both
Out of Warranty C7 and ES Card Repair	30-Sep-19	30-Sep-19	2019	Planned	Exchange Wide	18,000	\$12,849	2232	Circuit	Both
EPON SFPs for growth	30-Sep-19	30-Sep-19	2019	Planned	Exchange Wide	18,000	\$6,190	2232	Circuit	Both
Broadcom 16 & 10G interfaces	30-Sep-19	30-Sep-19	2019	Planned	Exchange Wide	18,000	\$20,000	2232	Circuit	Both
Intel 5320E IP Phone	30-Sep-19	30-Sep-19	2019	Planned	Exchange Wide	18,000	\$458	2232	Circuit	Both
Miscellaneous Additions	31-Mar-19	31-Mar-19	2019	Planned	Exchange Wide	18,000	\$20,000	2410	Cable & Wire	Both
Routine Work Order Activity	31-Mar-19	31-Mar-19	2019	Planned	Exchange Wide	18,000	\$30,000	2410	Cable & Wire	Both
Routine Work Order Activity	31-Mar-19	31-Mar-19	2019	Planned	Exchange Wide	18,000	\$114,423	2420	Cable & Wire	Both
Aerial Copper Restoration (AM/BX/MLM)	31-Mar-19	31-Mar-19	2019	Planned	Exchange Wide	18,000	\$89,389	2420	Cable & Wire	Both
Various Relocate	31-Mar-19	31-Mar-19	2019	Planned	Exchange Wide	18,000	\$99,000	2420	Cable & Wire	Both
New Build Residential (No ONTS)	31-Mar-19	31-Mar-19	2019	Planned	Exchange Wide	18,000	\$80,000	2420	Cable & Wire	Both
New Drop Bury Copper	31-Mar-19	31-Mar-19	2019	Planned	Exchange Wide	18,000	\$90,152	2420	Cable & Wire	Both
Underground Copper Restoration (Aging Underground)	31-Mar-19	31-Mar-19	2019	Planned	Exchange Wide	18,000	\$50,000	2420	Cable & Wire	Both
Estimated additions	31-Mar-19	31-Mar-19	2019	Planned	Exchange Wide	18,000	\$62,500	2420	Cable & Wire	Both
Underground Copper Restoration (Aging Underground)	31-Mar-19	31-Mar-19	2019	Planned	Exchange Wide	18,000	\$63,541	2420	Cable & Wire	Both
New Drop Bury Fiber	31-Mar-19	31-Mar-19	2019	Planned	Exchange Wide	18,000	\$60,000	2420	Cable & Wire	Both
Miller la Casa FTTH (Includes ONTS)	30-Jun-19	30-Jun-19	2019	Planned	Exchange Wide	18,000	\$78,547	2420	Cable & Wire	Both
Garden View FTTH (Includes ONTS)	30-Jun-19	30-Jun-19	2019	Planned	Exchange Wide	18,000	\$130,817	2420	Cable & Wire	Both
1515T and Grant (Includes ONTS)	30-Jun-19	30-Jun-19	2019	Planned	Exchange Wide	18,000	\$106,000	2420	Cable & Wire	Both
Bixby Town FTTH (Including ONT Costs)	30-Jun-19	30-Jun-19	2019	Planned	Exchange Wide	18,000	\$127,500	2420	Cable & Wire	Both
Total							\$4,711,281			

# APPENDIX A

Study Area Code 431369  
Study Area Name Blake Township Community  
Company Contact Name Frank Robinson  
Contact Telephone Number 418-566-8079 x-219  
Contact Email Address ftrabbein@blake.net

PART A - PROJECT LIST FOR 2016-2021

Project	Start Date	Completion	Year	Status	Areas	Estimated Population	Total Dollars	Part 32 Account	Category	Voice Broadband, Both
Refinancing Vehicle Replacement	31-Mar-20	31-Mar-20	2020	Planned	Exchange Wide	18,000	\$40,000	2112	Vehicles	Both
Construction Vehicle Replacement	30-Jun-20	30-Jun-20	2020	Planned	Exchange Wide	18,000	\$68,000	2112	Vehicles	Both
IGR Vehicle Replacement	30-Jun-20	30-Jun-20	2020	Planned	Exchange Wide	18,000	\$80,000	2112	Vehicles	Both
Estimated Additions	31-Mar-20	31-Mar-20	2020	Planned	Exchange Wide	18,000	\$63,000	2116	General Support	Both
Construction Test Equipment	31-Mar-20	31-Mar-20	2020	Planned	Exchange Wide	18,000	\$5,000	2116	General Support	Both
Equipment Replacement	30-Jun-20	30-Jun-20	2020	Planned	Exchange Wide	18,000	\$50,000	2116	General Support	Both
IGR Test Equipment Updates	31-Mar-20	31-Mar-20	2020	Planned	Exchange Wide	18,000	\$12,000	2116	General Support	Both
Miscellaneous Furniture	30-Sep-20	30-Sep-20	2020	Planned	Exchange Wide	18,000	\$2,000	2112	General Support	Both
Engineering PC Replacement	30-Sep-20	30-Sep-20	2020	Planned	Exchange Wide	18,000	\$1,500	2112	General Support	Both
Service Delivery PC Replacement	31-Dec-20	31-Dec-20	2020	Planned	Exchange Wide	18,000	\$1,500	2112	General Support	Both
Administrator Computer and Peripherals	31-Dec-20	31-Dec-20	2020	Planned	Exchange Wide	18,000	\$2,000	2112	General Support	Both
Laptops	31-Dec-20	31-Dec-20	2020	Planned	Exchange Wide	18,000	\$3,100	2112	General Support	Both
Desktops	31-Dec-20	31-Dec-20	2020	Planned	Exchange Wide	18,000	\$2,600	2112	General Support	Both
PC UPS Maintenance/Replacements	31-Dec-20	31-Dec-20	2020	Planned	Exchange Wide	18,000	\$2,000	2112	General Support	Both
Desktop Software	31-Dec-20	31-Dec-20	2020	Planned	Exchange Wide	18,000	\$2,000	2112	General Support	Both
Windows Server OS Software Licensing	31-Dec-20	31-Dec-20	2020	Planned	Exchange Wide	18,000	\$6,000	2112	General Support	Both
Microware Office	31-Dec-20	31-Dec-20	2020	Planned	Exchange Wide	18,000	\$8,600	2112	General Support	Both
Estimated Additions	31-Dec-20	31-Dec-20	2020	Planned	Exchange Wide	18,000	\$7,500	2112	Switch	Both
Migrate CES Function to VM, MG Function to AGC Chassis	31-Dec-20	31-Dec-20	2020	Planned	Exchange Wide	18,000	\$100,000	2212	Switch	Both
Calix E7 Growth	31-Mar-20	31-Mar-20	2020	Planned	Exchange Wide	18,000	\$55,168	2232	Circuit	Both
Calix E7 VDSL Growth	31-Mar-20	31-Mar-20	2020	Planned	Exchange Wide	18,000	\$9,348	2232	Circuit	Both
Out of Warranty C7 and E3 Card Repair	31-Mar-20	31-Mar-20	2020	Planned	Exchange Wide	18,000	\$12,849	2232	Circuit	Both
GPON SFPs for growth	31-Mar-20	31-Mar-20	2020	Planned	Exchange Wide	18,000	\$6,180	2232	Circuit	Both
Brocade 16 & 106 Interfaces	31-Mar-20	31-Mar-20	2020	Planned	Exchange Wide	18,000	\$20,000	2232	Circuit	Both
Intel ES200E IP Phone	31-Mar-20	31-Mar-20	2020	Planned	Exchange Wide	18,000	\$458	2410	Cable & Wire	Both
Miscellaneous Additions	31-Mar-20	31-Mar-20	2020	Planned	Exchange Wide	18,000	\$125,865	2420	Cable & Wire	Both
Routine Work Order Activity	31-Mar-20	31-Mar-20	2020	Planned	Exchange Wide	18,000	\$125,865	2420	Cable & Wire	Both
Aerial Copper Restoration (44Mbps/1Mbps)	31-Mar-20	31-Mar-20	2020	Planned	Exchange Wide	18,000	\$99,000	2420	Cable & Wire	Both
Various Relocates	31-Mar-20	31-Mar-20	2020	Planned	Exchange Wide	18,000	\$70,040	2420	Cable & Wire	Both
New Build Commercial (No ONTS)	30-Jun-20	30-Jun-20	2020	Planned	Exchange Wide	18,000	\$70,000	2420	Cable & Wire	Both
Underground Copper Restoration (aging Underground)	31-Mar-20	31-Mar-20	2020	Planned	Exchange Wide	18,000	\$90,746	2420	Cable & Wire	Both
Estimated Additions	30-Jun-20	30-Jun-20	2020	Planned	Exchange Wide	18,000	\$30,000	2420	Cable & Wire	Both
Underground Copper Restoration (aging Underground)	30-Jun-20	30-Jun-20	2020	Planned	Exchange Wide	18,000	\$83,333	2420	Cable & Wire	Both
ONT	30-Jun-20	30-Jun-20	2020	Planned	Exchange Wide	18,000	\$78,541	2420	Cable & Wire	Both
New Drop Bury Fiber	30-Jun-20	30-Jun-20	2020	Planned	Exchange Wide	18,000	\$35,600	2420	Cable & Wire	Both
Total							\$1,368,428			



# APPENDIX A

Study Area Code  
 Study Area Name  
 Company Contact Name  
 Contact Telephone Number  
 Contact Email Address

43139  
 Bony Telephone Company  
 Frank P. Hickey  
 915-565-5700 x219  
 ftehban@bony.net

PART A - PROJECT LIST FOR 2016-2021

Project	Start Date	Completion	Year	Status	Areas	Estimated Population	Total Dollars	Part 32 Account	Category	Voice, Broadband, Both
Construction Vehicle Replacement	30-Sep-21	30-Sep-21	2021	Planned	Exchange Wide	18,000	\$20,021	2112	Vehicles	Both
1&1 Vehicle Replacement	30-Sep-21	30-Sep-21	2021	Planned	Exchange Wide	18,000	\$20,021	2112	Vehicles	Both
Construction Vehicle Replacement	31-Dec-21	31-Dec-21	2021	Planned	Exchange Wide	18,000	\$20,021	2112	Vehicles	Both
Estimated additions	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$20,000	2116	General Support	Both
Construction Test Equipment	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$4,000	2116	General Support	Both
1&1 Test Equipment Replacement	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$3,000	2116	General Support	Both
Equipment Replacement	30-Jun-21	30-Jun-21	2021	Planned	Exchange Wide	18,000	\$50,000	2116	General Support	Both
1&1 Optic Equipment	31-Mar-21	30-Jun-21	2021	Planned	Exchange Wide	18,000	\$22,000	2116	General Support	Both
Construction Test Equipment	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$25,000	2116	General Support	Both
Miscellaneous Furniture	31-Mar-21	30-Sep-21	2021	Planned	Exchange Wide	18,000	\$5,000	2116	General Support	Both
Estimated additions	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$32,000	2124	General Support	Both
Service Delivery PC Replacement	30-Jun-21	30-Jun-21	2021	Planned	Exchange Wide	18,000	\$5,000	2124	General Support	Both
Engineering PC Replacement	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$1,500	2124	General Support	Both
Estimated additions	31-Dec-21	30-Jun-21	2021	Planned	Exchange Wide	18,000	\$30,000	2212	Switch	Both
Estimated additions	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$40,000	2232	Circuit	Both
4&1/DC, 100Ah Batteries for Remotes	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$6,740	2232	Circuit	Both
Callix E7 Growth	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$55,168	2232	Circuit	Both
Out of Warranty C7 and ES Card Repair	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$9,348	2232	Circuit	Both
GRON Strps for growth	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$12,849	2232	Circuit	Both
Biocade 16 & 106 interfaces	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$6,180	2232	Circuit	Both
4&1/DC, 100Ah Batteries for Remotes	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$20,000	2232	Circuit	Both
Maril 5320w IP Phone	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$6,740	2232	Circuit	Both
Miscellaneous Additions	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$458	2232	Circuit	Both
Routine Work Order Activity	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$20,000	2420	Cable & Wire	Both
Routine Work Order Activity	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$15,000	2420	Cable & Wire	Both
Aerial Copper Restoration (4Mbps/LMbps)	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$58,000	2420	Cable & Wire	Both
Various Routers	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$105,000	2420	Cable & Wire	Both
New Build Commercial (No ONTS)	30-Jun-21	30-Jun-21	2021	Planned	Exchange Wide	18,000	\$37,500	2420	Cable & Wire	Both
New Drop Bury Copper	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$70,000	2420	Cable & Wire	Both
Estimated additions	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$30,000	2420	Cable & Wire	Both
Underground Copper Restoration (Leaving Underground)	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$70,000	2420	Cable & Wire	Both
Test Equipment	30-Jun-21	30-Jun-21	2021	Planned	Exchange Wide	18,000	\$5,000	2420	Cable & Wire	Both
ONT	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$81,000	2420	Cable & Wire	Both
New Drop Bury Fiber	31-Mar-21	31-Mar-21	2021	Planned	Exchange Wide	18,000	\$220,000	2420	Cable & Wire	Both
Total							\$1,228,056			

# APPENDIX B

Study Area Code 431969  
Study Area Name Bixby Telephone Company  
Company Contact Name Frank Rehbein  
Contact Telephone Number 918-366-8000 x-219  
Contact Email Address frehbein@olp.net

**Part B: 5-Year Proposed Capital Expenditures and Operating Expenses**  
(1) Use the chart below to break out the regulated portion of the cost/expense on a per-year basis  
Please note that the 5-Year Plan should include regulated plant/expenses only.

Regulated Capital Expenditure (CapEx) Projections							
Account	Description	2017	2018	2019	2020	2021	Total Projected CapEx 2017-2021
2111 & 2121	Land & Building	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2112	Vehicles	\$ 117,500	\$ 153,000	\$ 158,000	\$ 188,000	\$ 60,063	\$ 676,563
2116-2124	Support Assets	\$ 200,455	\$ 172,200	\$ 174,400	\$ 161,300	\$ 164,000	\$ 872,355
2210	Switching Equipment	\$ -	\$ 50,000	\$ 25,000	\$ 107,500	\$ 30,000	\$ 212,500
2232	Circuit Equipment	\$ 257,723	\$ 312,463	\$ 104,013	\$ 104,013	\$ 157,493	\$ 935,704
2410	Cable & Wire Facilities	\$ 1,223,783	\$ 1,812,085	\$ 1,249,868	\$ 807,615	\$ 816,500	\$ 5,909,852
1220	Materials & Supplies	\$ 446,707	\$ 386,707	\$ 356,707	\$ 326,707	\$ 296,707	\$ 1,813,537
	Total Capital Expenditures	\$ 2,246,168	\$ 2,886,456	\$ 2,067,988	\$ 1,695,135	\$ 1,524,763	\$ 10,420,510

Regulated Operating Expenditure (OpEx) Projections							
Account	Operating Expenses	2017	2018	2019	2020	2021	Total Operating Expenses 2017-2021
6110-6120	General Support Maintenance	\$ 423,205	\$ 437,078	\$ 451,409	\$ 466,213	\$ 481,506	\$ 2,259,412
6210	Switching Maintenance	\$ 124,085	\$ 118,541	\$ 108,961	\$ 108,961	\$ 104,827	\$ 565,374
6230	COE Transmission Maintenance	\$ 1,095,351	\$ 1,114,507	\$ 1,133,999	\$ 1,153,832	\$ 1,174,012	\$ 5,671,701
6410	Cable & Wire Facilities	\$ 1,420,642	\$ 1,461,464	\$ 1,504,382	\$ 1,549,471	\$ 1,597,003	\$ 7,532,931
6530	Non-Specific (Testing, Plant Op., Engineering)	\$ 609,437	\$ 612,135	\$ 614,973	\$ 617,954	\$ 621,081	\$ 3,075,580
6561-2110	General Support Depreciation	\$ 630,527	\$ 475,307	\$ 323,608	\$ 346,608	\$ 514,525	\$ 2,290,574
6561-2210	Switching Depreciation	\$ 44,121	\$ 38,749	\$ 10,482	\$ 140,482	\$ 37,517	\$ 271,351
6561-2230	Circuit Equip Depreciation	\$ 312,570	\$ 318,463	\$ 104,012	\$ 104,013	\$ 30,059	\$ 869,116
6561-2410	Cable & Wire Depreciation	\$ 1,588,331	\$ 1,681,573	\$ 1,534,731	\$ 1,200,838	\$ 1,067,981	\$ 7,073,453
6610-6620	Customer Operations	\$ 704,168	\$ 645,255	\$ 643,700	\$ 642,108	\$ 641,082	\$ 3,276,313
6711-6720	Corporate Operations	\$ 1,167,940	\$ 1,336,601	\$ 1,358,617	\$ 1,381,669	\$ 1,405,811	\$ 6,650,639
7240	Ad Valorem Expense	\$ 285,949	\$ 300,247	\$ 315,259	\$ 331,022	\$ 347,573	\$ 1,580,050
	Total Operating Expenses	\$ 8,406,325	\$ 8,538,919	\$ 8,104,103	\$ 8,045,270	\$ 8,072,976	\$ 41,116,494

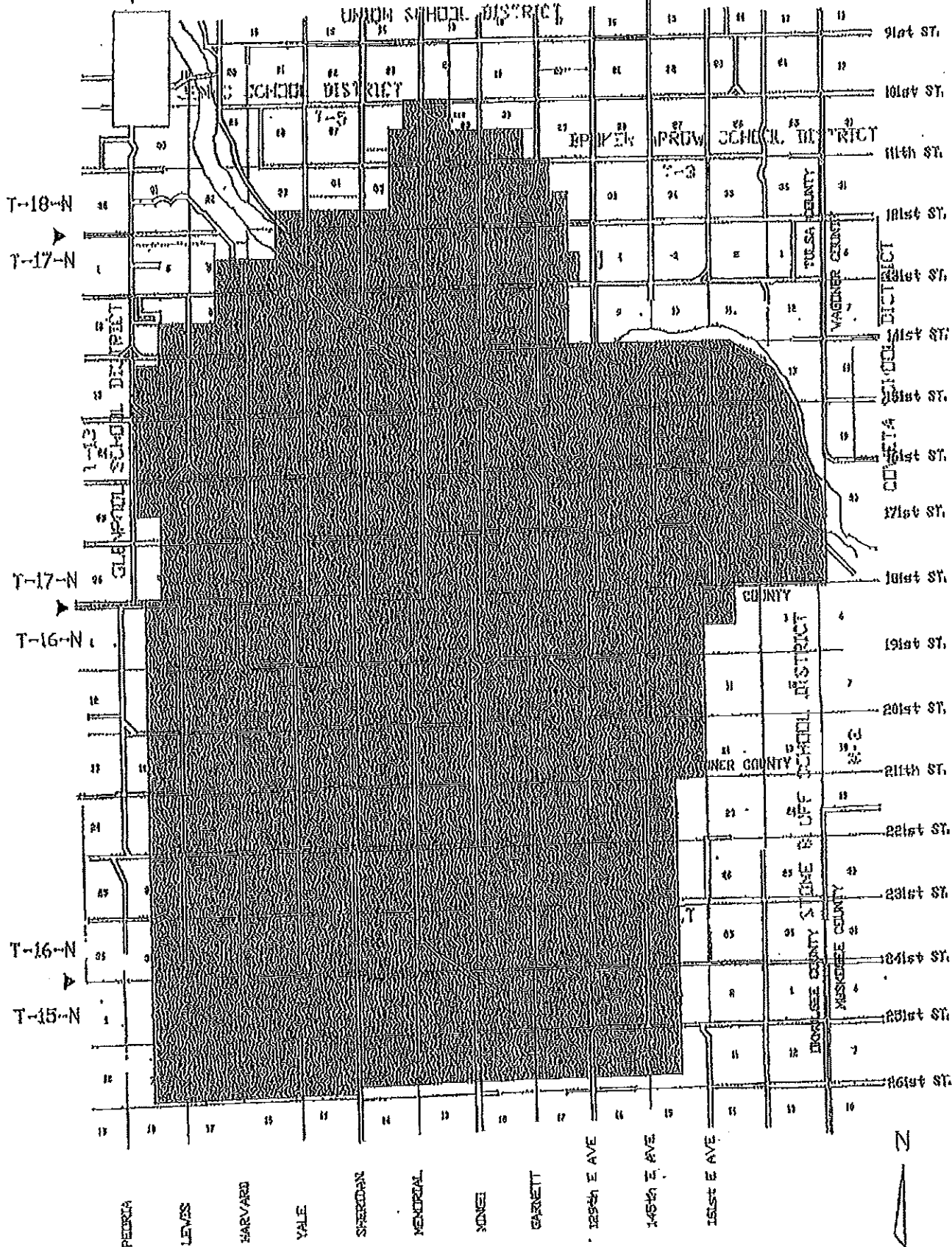
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APPENDIX C

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COUNTY LINE  
SCHOOL DISTRICT  
OFFICE/REMOTE

EXCHANGE BOUNDARY  
4 UP, 1 DOWN  
10 UP, 1 DOWN